

PHYSICAL & MENTAL REQUIREMENTS/WORKING CONDITIONS
City of Virginia Beach, VA

Job Title:	Senior Engineer III	Position Number(PCN):	B.003699.5
Div./Office:	PWD 516 Engineering and Construction Management Services	Approver's Name	
Date of Last Update:	January 03, 2025	Approver's Title	

Fields to the right (Y/N): The position's status AND If the background check must be passed by the incumbent	Safety Sensitive:	No	Child Protective Services (CPS) Background:	No	VCIN Background:	No
	CJIS Certification:	No	PREA Certification:	No	Subject to Barrier Crime Provisions:	No

REQUIREMENTS

FREQUENCY: Seldom = Infrequent, < 5%; Occasional = 5% to 25% of time on job; Frequent = 25% to 75% of time on job; Constant = Over 75% of time on job.

Typical DURATION: Short = < 1 hr per occurrence; Moderate = 1-2 hrs per occurrence; Substantial = 2-6 hrs per occurrence; Long = > 6 hrs per occurrence.

Physical Demands				Working Conditions			
Element	Condition/Level/Value	Frequency	Duration	Element	Condition/Level/Value	Frequency	Duration
Standing		Occasional	Short	Working Outside:	in all weather conditions	Seldom	Short
Walking		Occasional	Short	Working Alone:	out of communication w/others	N/A	N/A
Sitting		Frequent	Substantial	Extreme Temperatures	N/A	N/A	N/A
Reaching	N/A	N/A	N/A	Extreme Wetness		N/A	N/A
Lifting	Up to 25 lbs.	Occasional	Short	Extreme Dryness		N/A	N/A
Carrying	Weight: Up to 25 lbs.	Occasional	Short	Exposure to Traffic	High Traffic High Speed	Seldom	Short
	Distance: Up to 25 ft.	Seldom	Short		High Traffic Low Speed	Seldom	Short
Pushing	Estimated weight-resistance equivalency			Congested Area/Workspace		N/A	N/A
	Up to 10 lbs.	Seldom	Short	Confined Space- Permit REQUIRED		N/A	N/A
Pulling	Estimated weight-resistance equivalency			Working Below Ground		N/A	N/A
	Up to 10 lbs.	Seldom	Short	Working at Heights (ft.)	N/A	N/A	N/A
Working Overhead	N/A	N/A	N/A	Noise Level: > 85 decibels TWA for 8 hrs.	N/A	N/A	N/A
	Weight: N/A	N/A	N/A				
Climbing Stairs		Occasional	Short	Vibrations	N/A	N/A	N/A
Climbing Ladders		N/A	N/A				
Balancing		N/A	N/A		Body area(s):	Ex- Trunk, shoulders, arms, and hands.	
Stooping		Seldom	Short	Dust / Dirt / Particulate		N/A	N/A
Kneeling/Squatting		Seldom	Short	Radiation		N/A	N/A
Bending		Seldom	Short	Silica/Fiberglass		N/A	N/A
Crawling		N/A	N/A	Asbestos		N/A	N/A
Explosive Strength: Short bursts of muscle force to propel oneself.		N/A	N/A	Aerosols & Gases	N/A	N/A	N/A
Trunk Strength: Use of abdominal and lower back muscles.		N/A	N/A	Hazardous Materials /Chemicals		N/A	N/A
Dynamic Strength: Use of muscle force repeatedly or continuously & resistant to fatigue.		N/A	N/A	Petroleum Products	N/A	N/A	N/A
Repetitive Limb Movement	Fingers/Wrist	Frequent	Moderate	Electrical Hazard		N/A	N/A
				Fire Hazard		N/A	N/A
Dexterity	Use of computer keyboard	Frequent	Substantial	Infectious Diseases Exposure Type(s):	N/A	N/A	N/A
	Handwriting	Occasional	Moderate		Ex- Repair sewer pipes; empty residence trash cans.		
Repetitive Twisting	N/A	N/A	N/A	Symbols:	< equal to or less than	< less than	
Awkward Positions & Motions	N/A	N/A	N/A		> equal to or greater than	> greater than	

Sensory Demands				Working Conditions (cont.)			
Element	Condition/Level/Value	Frequency	Duration	Element	Condition/Level/Value	Frequency	Duration
Vision	20/40 w/correction	Seldom	Substantial	Hazardous Surfaces	N/A	N/A	N/A
Hearing	Conversational level	Occasional	Moderate	Other Hazards	N/A	N/A	N/A
Smell	N/A	N/A	N/A				
Touch	N/A	N/A	N/A	Hours Worked	More than 40 hours/week	Seldom	
					More than 8 hours/day	Seldom	
					More than 5 consecutive days	Seldom	
Voice	One-on-One	Occasional	Moderate	Telework Eligible	Yes		
Personal Protective Equipment (PPE)				Equipment Operation & Use			
Category	Type	Frequency	Duration	Category	Type	Frequency	Duration
Eye and Face Protection	Safety glasses w/side shields	Seldom	Short	Motor Vehicles	Sedan/Pickup/Van	Occasional	Short
				Heavy Equipment	N/A	N/A	N/A
Respiration Protection	N/A	N/A	N/A				
Hearing Protection	N/A	N/A	N/A	Other Equipment or Machinery	N/A	N/A	N/A
Head Protection	Hard hat (impact protection)	Seldom	Short				
				Hand-Held Power Tools	N/A	N/A	N/A
Hand Protection	N/A	N/A	N/A				
Foot Protection	Steel/composite toe-safety rated	Seldom	Short	Hand Tools and Instruments	N/A	N/A	N/A
Body, Arm, and Leg Protection	Traffic vest	Seldom	Short	Office Machines & Equipment	Computer	Frequent	Substantial
	Rain gear	Seldom	Short		Printer/Copier/Fax	Occasional	Short
					Map/blueprint printer	Seldom	Short
Operator License				Commercial Driver's License			
NOTE: If CDL is required, show CDL Class in element to right.	Type			VA DMV requires: 20/40 in each eye w/o telescopic lens & ≥140° horizontal vision.	N/A		
	Standard Driver's License						
Other physical or sensory demands, working conditions, equipment, hazards, PPE, etc., not indicated above:							

Mental Requirements

Evaluate based on the level of complexity [least to most] inherent in the job using the examples provided; then select the number from the drop-down list that matches the column which best represents the mental demand required in each element.

1 Comprehend Verbal Communication - Understand information and directions which are provided verbally
Job requires the ability to understand and follow: Complex information where interpretation of vision and strategy is required to develop policy and/or course of action.
2 Communicate Orally - Verbally express thoughts and directions
Job requires: Explaining and interpreting specialized, and sometimes sensitive, information to co-workers, customers, citizen groups or higher officials.
3 Comprehend and Follow Written Material or Instructions - Understand written material, interpret appropriately, and adhere to the procedures stated.
Job requires ability to comprehend: Complex written material in the form of formal reports of a highly specialized or technical nature. Guidance and clarification are typically available.
4 Written Communication Skills - Express thoughts and directions in writing
Job requires: Preparation of reports and documents involving complex information.
5 Maintain an Appropriate Work Pace - The flow or rate of incoming work assignments and the expectations for completion of tasks
Job requires ability to adhere to work schedule: In a fast paced environment where much of the work is new and nonrecurring.
6 Perform Complex or Varied Tasks - The variety of tasks and assignments and the level of complexity of those tasks/assignments
Job requires ability to perform: A variety of tasks at the specialist or leader level.
7 Interact and Relate to Peers, Co-Workers, or the Public - The nature and level of interaction with others required of the job
Job requires interaction: With individuals or groups to collaborate on detailed, sensitive, or highly technical issues or projects.
8 Decision Making & Reasoning Ability - The extent to which the job requires logic to analyze information, draw conclusions/ generalizations, and make decisions based on facts
Job requires: Substantial reasoning and decision making. Research and evaluation are conducted, broad theories and principals are applied to the development of a recommended solution.
9 Memory and Recall - The body of stored knowledge required and the retrieval of that information to accomplish duties
Job requires the ability to: Remember information from broad bodies of knowledge (engineering, psychology, biology, law, etc.) and apply it to projects and assignments.
10 Flexibility and Adaptability - The extent to which one must adjust to changing circumstances and expectations, take on new challenges on short notice, and/or deal successfully with changing priorities and workloads
Job requires flexibility and willingness: To be adaptable in assessing customer/client needs and tailoring a non-typical solution.
11 Attention Span - Sustained attention or the time spent continuously on task without becoming distracted to successfully perform duties
Job tasks are: Varied, substantially long, and require considerable focus. Lapses may result in operational or production delays.
12 Attention to Detail - Thoroughness and accuracy are required to accomplish tasks
Job tasks: Involve numerous and various details, some of which have subtle differences, that require continuous and close attention to detail to facilitate accuracy of outcome. Inattention to detail could result in legal or financial liability.
13 Reaction Time - Describes work that requires an immediate response or decision
Job requires the ability to: Provide an immediate response/decision to situations outside of normal daily operations, procedures or processes. Delays occur if response is not timely.
14 Direct, Control, and Plan the Work of Others - Determine the time, place and sequence of work procedures, operations, and actions. Establish goals and objectives, motivate, and promote cooperation and teamwork in the work group
Job requires: Planning and supervision of multiple groups of employees.
15 Influence Others - Obtain cooperation from others to accomplish tasks and objectives
Job requires: Working with diverse groups; must obtain consensus on complex issues or policies from a variety of groups or individuals to complete work satisfactorily.
16 Stress Tolerance - Ability to perform duties without anxiety when faced with difficulties. Having positive stress tolerance is being able to stay calm in situations of heavy workload, tight deadlines, and/or difficult customers
Job requires the ability to: Tolerate highest levels of stress resulting from complex situations; requires maintaining personal composure and initiating remedial action to alleviate stress for others.